

BEST AVAILABLE COPY

FIG.1

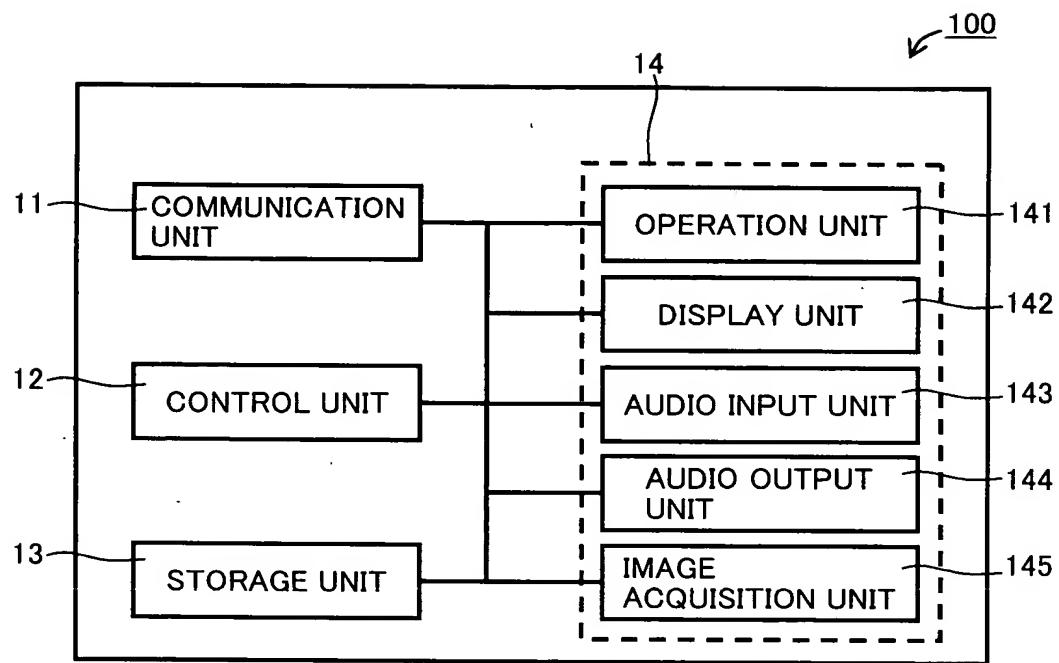


FIG.2

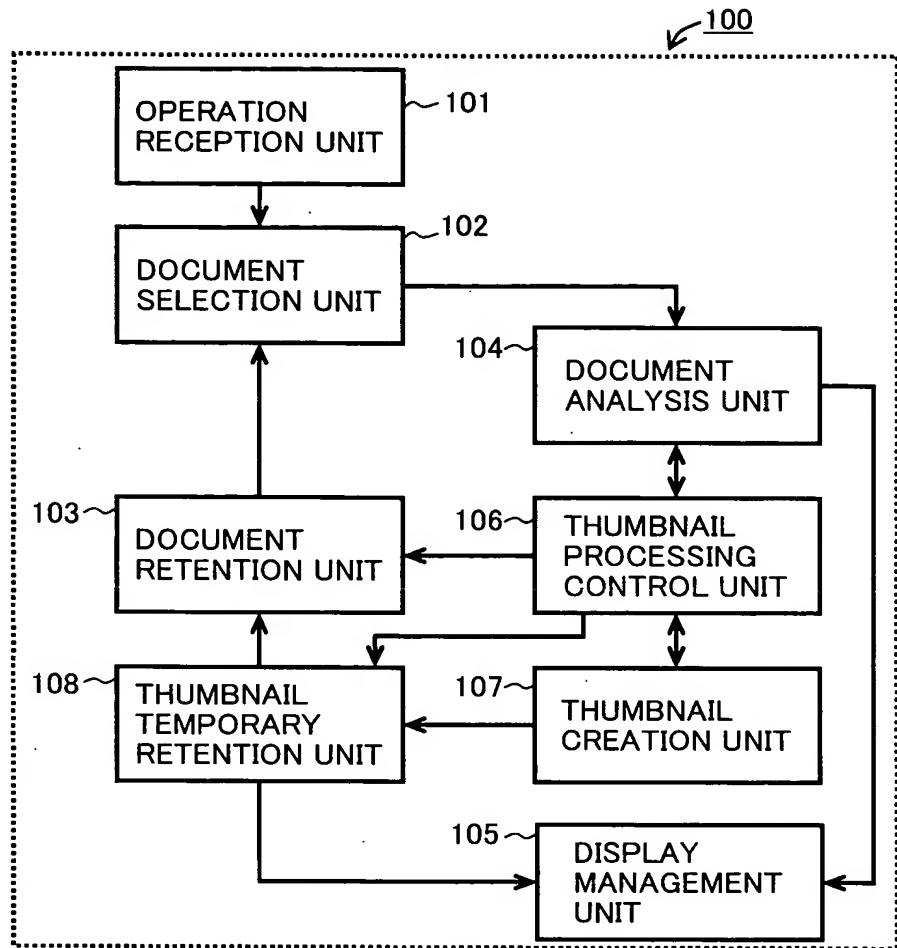


FIG.3

TYPE	INTEGER	CHARACTER STRING	CHARACTER STRING	CHARACTER STRING	CHARACTER STRING	INTEGER	POINTER TO attach_data TYPE
FIELD NAME	time	from	to[]	cc[]	subject	msg_text	msg_size
NOTES	TRANSMISSION DATE AND TIME OR RETENTION DATE AND TIME	SENDER ADDRESS	ADDRESS DESIGNATED IN To (MULTIPLE ALLOWED)	ADDRESS DESIGNATED IN Cc (MULTIPLE ALLOWED)	SUBJECT	MESSAGE TEXT	MAIL TOTAL VOLUME (Byte) ATTACHMENT FILE

FIG.4

TYPE	CHARACTER STRING	CHARACTER STRING	INTEGER	INTEGER	INTEGER	POINTER TO thumb_data TYPE
FIELD NAME	name	type	time	size	address	thumb_data
NOTES	ATTACHMENT FILE NAME	FILE TYPE (mime/type)	CREATION DATE AND TIME	FILE SIZE (Byte)	DATA ENTITY TOP ADDRESS	POINTER TO THUMBNAIL DATA STRUCTURE

FIG.5

TYPE	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER
FIELD NAME	complete	status	size	address	time	lastaccess	count
NOTES	CLASSIFICATION OF OBTAINABLE DATA -1: NONE 0: COMPLETED 1: INTERMEDIATE DATA	CREATION PROCESSING STATUS 0: PROCESS COMPLETED/ TERMINATED 1: PROCESS IN PROGRESS	DATA SIZE (Byte)	DATA ENTITY TOP ADDRESS	CREATION DATE AND TIME	FINAL ACCESS DATE AND TIME	ACCESS COUNT DEGREE OF IMPORTANCE

FIG.6

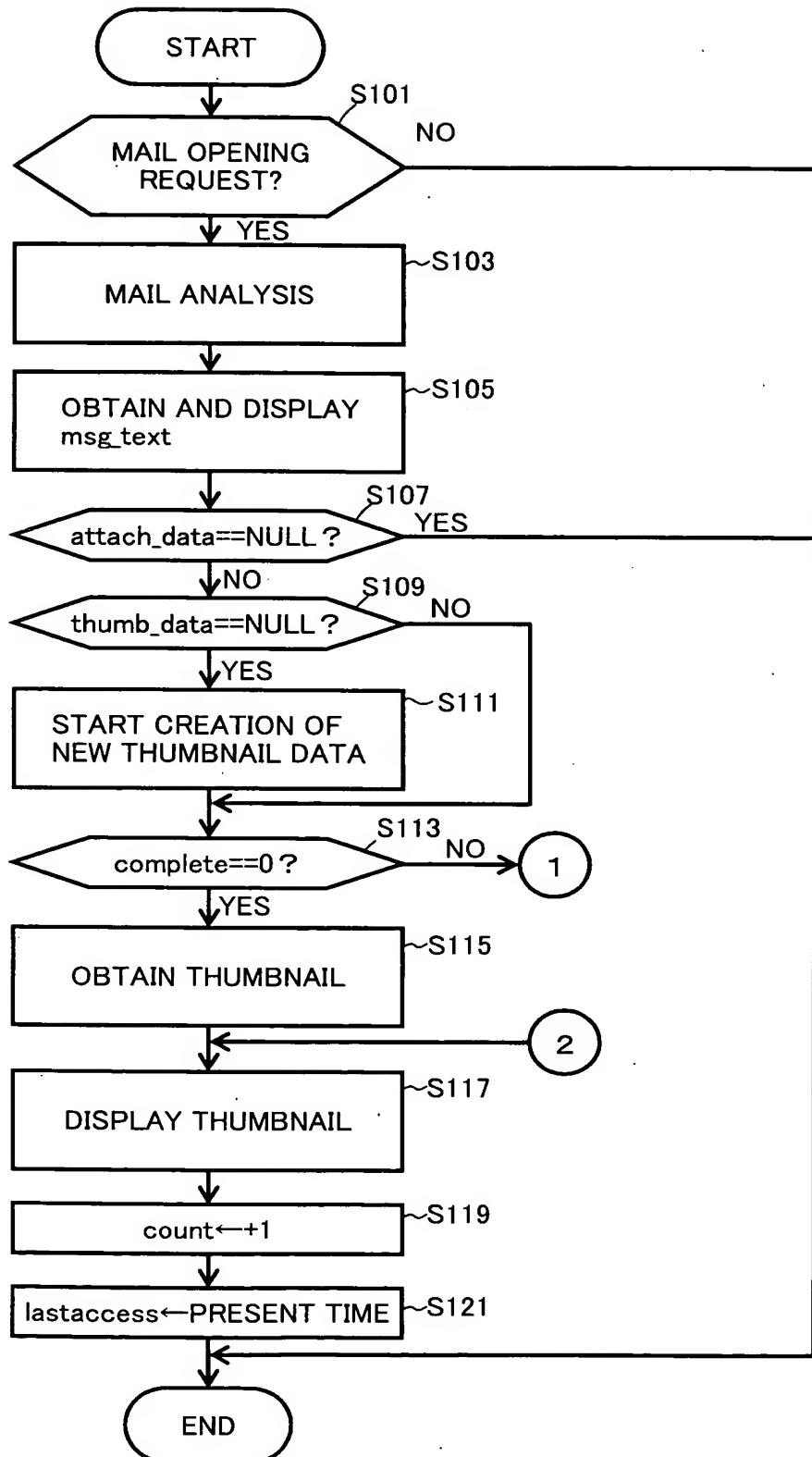


FIG.7

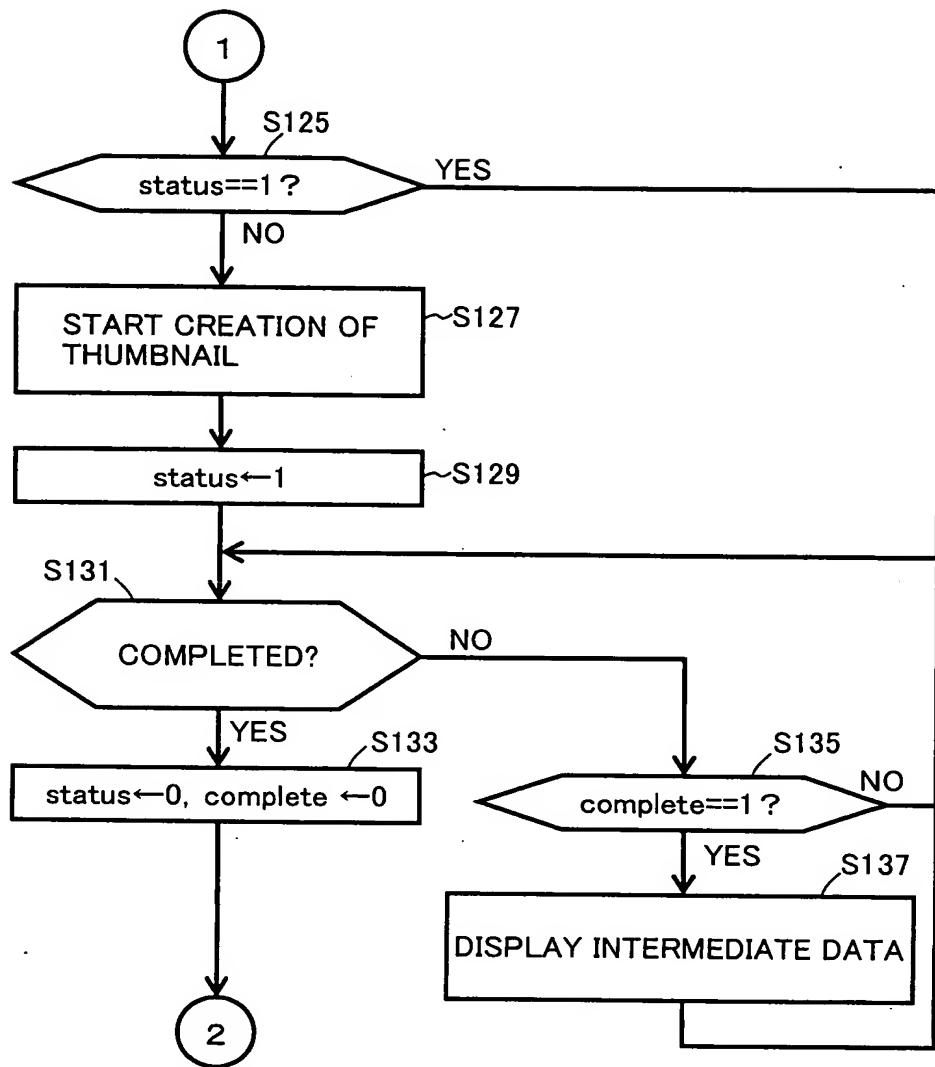


FIG.8

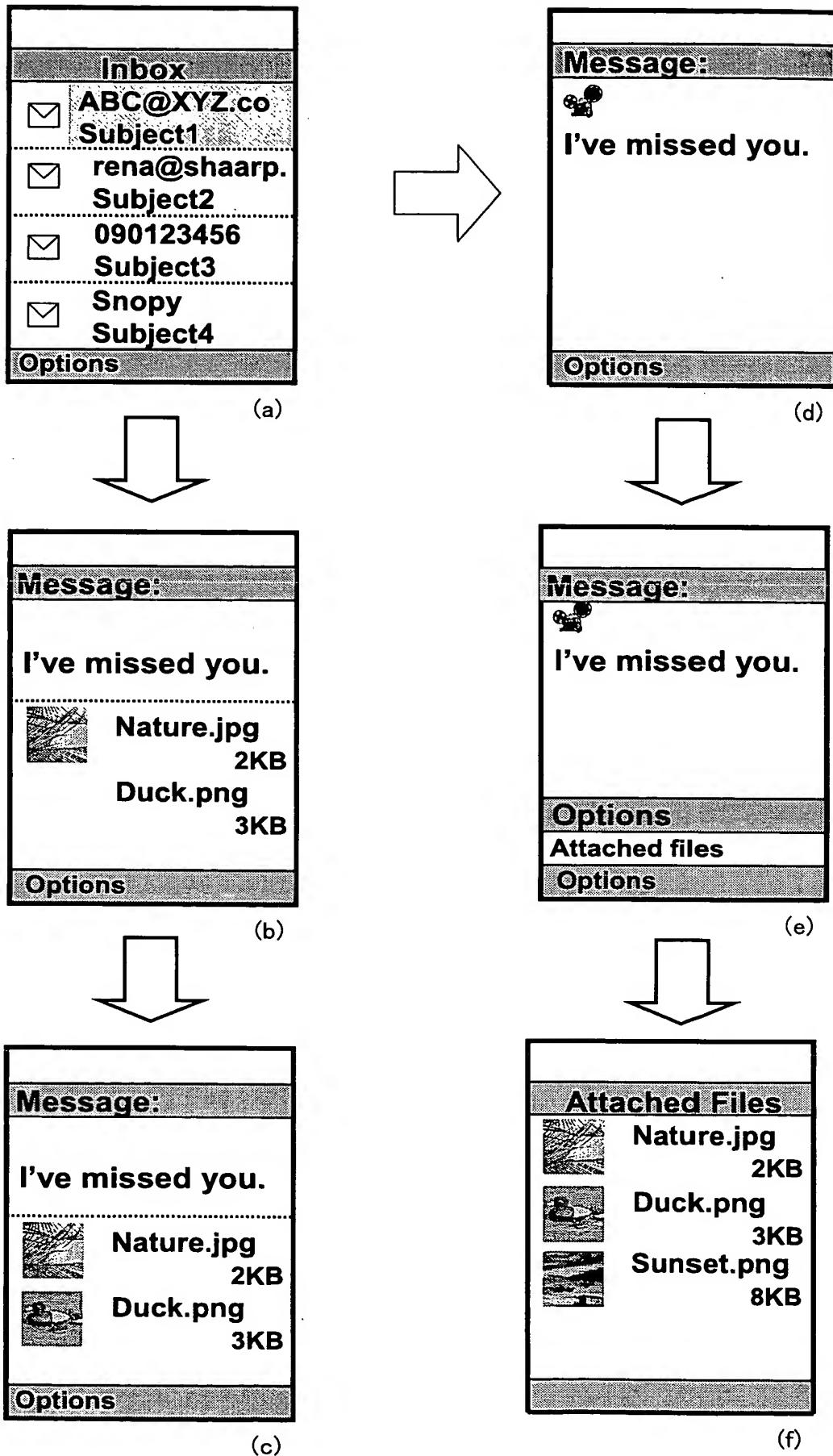


FIG.9

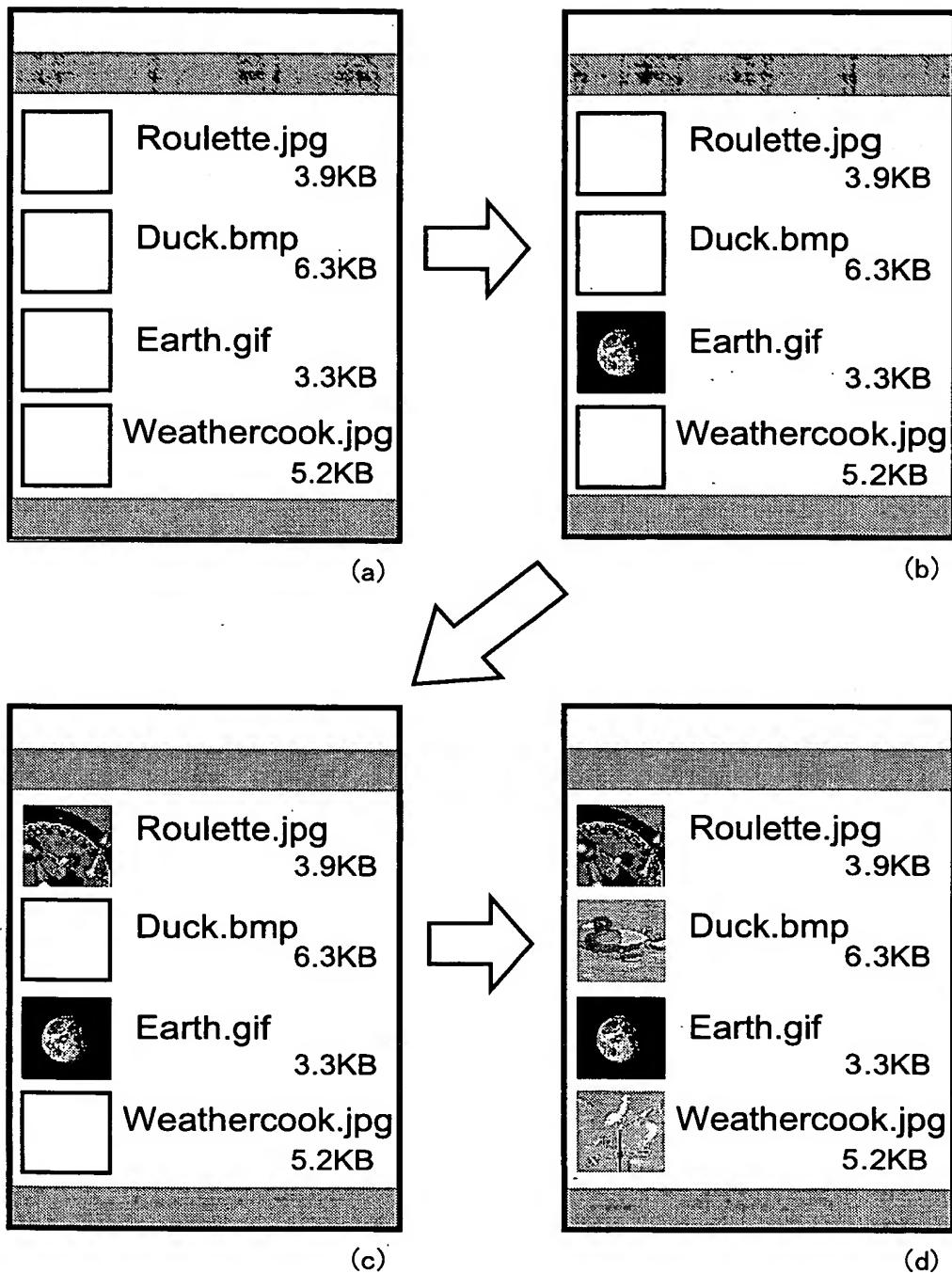


FIG.10

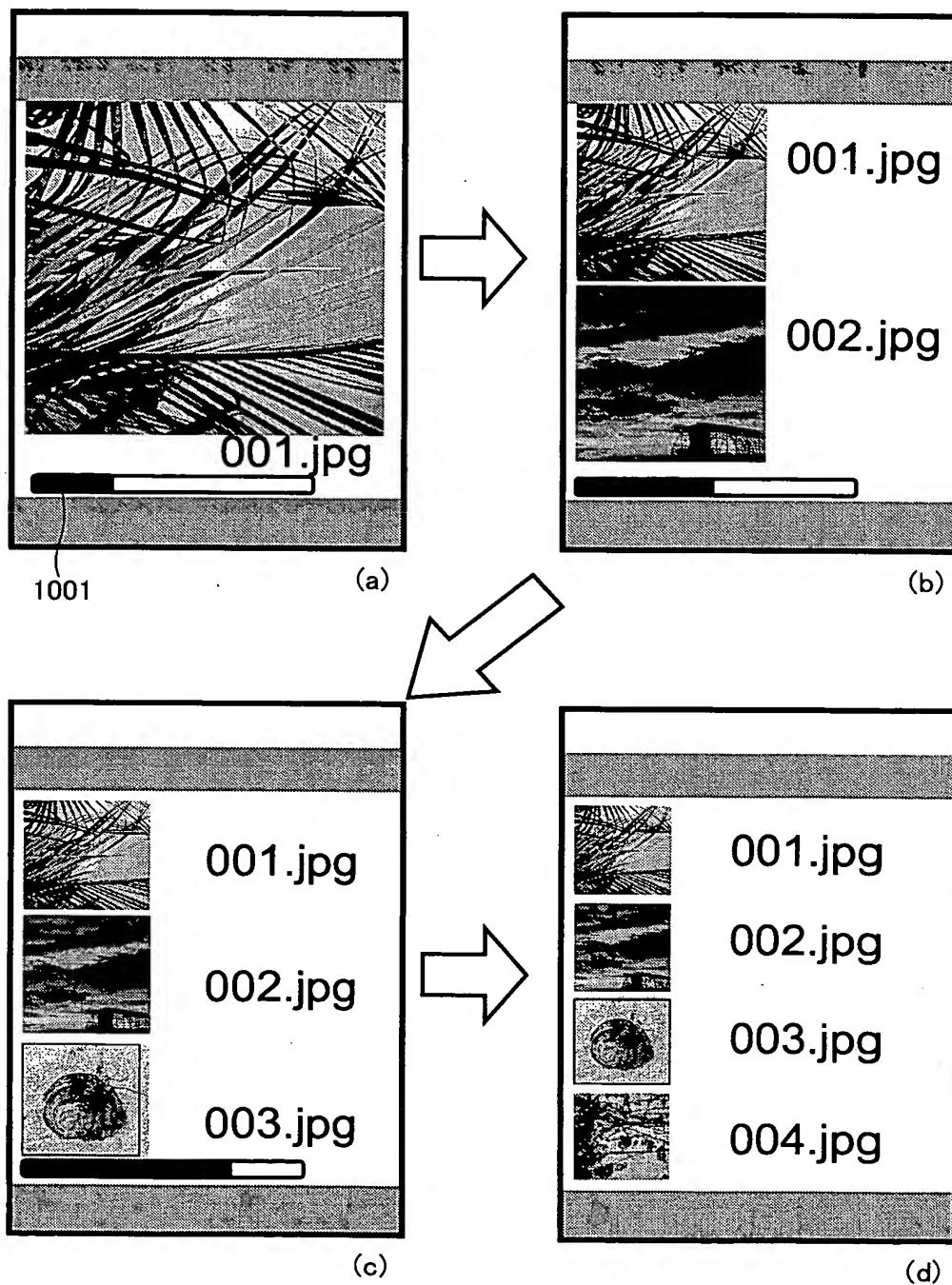


FIG.11

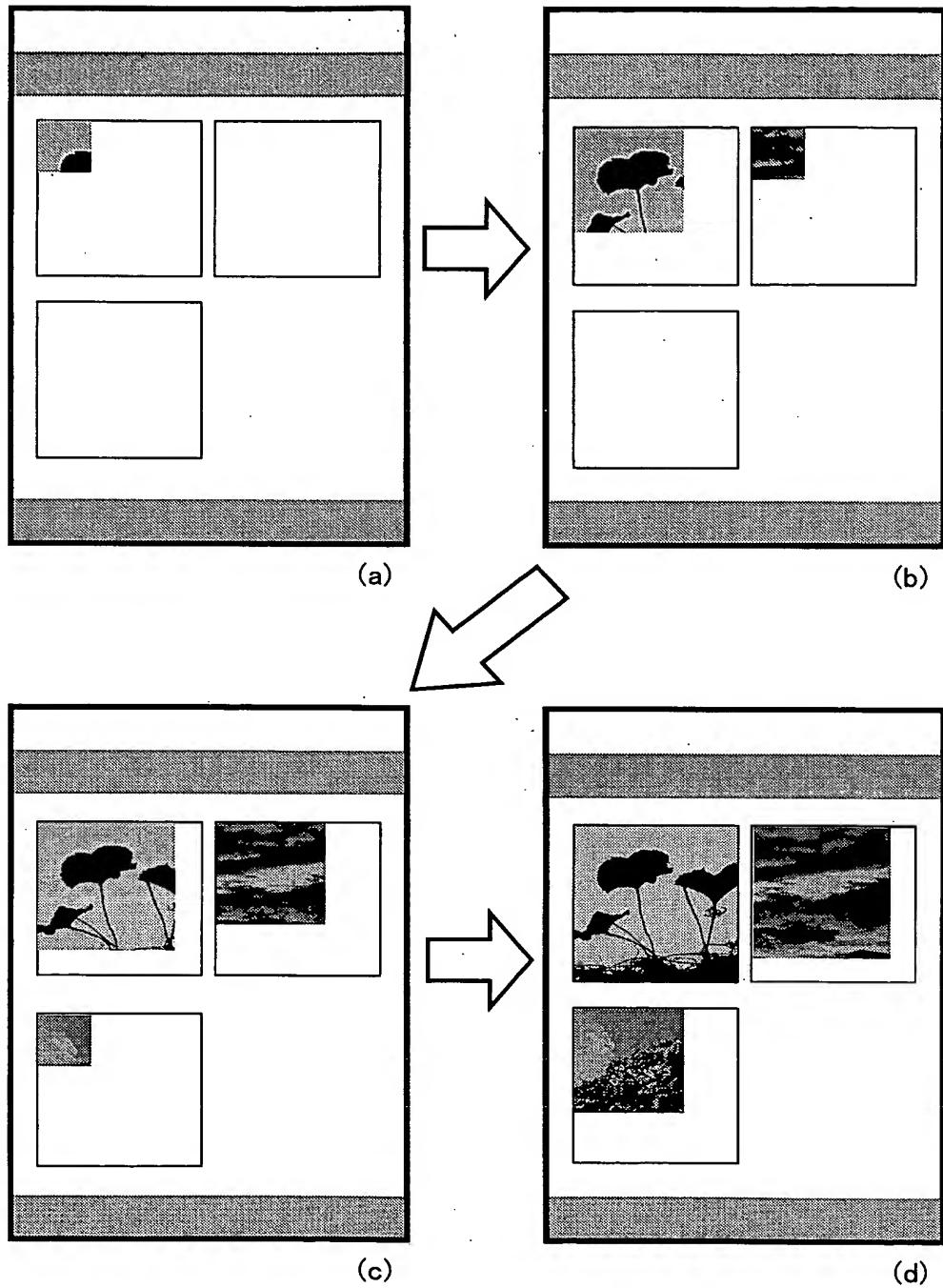


FIG.12

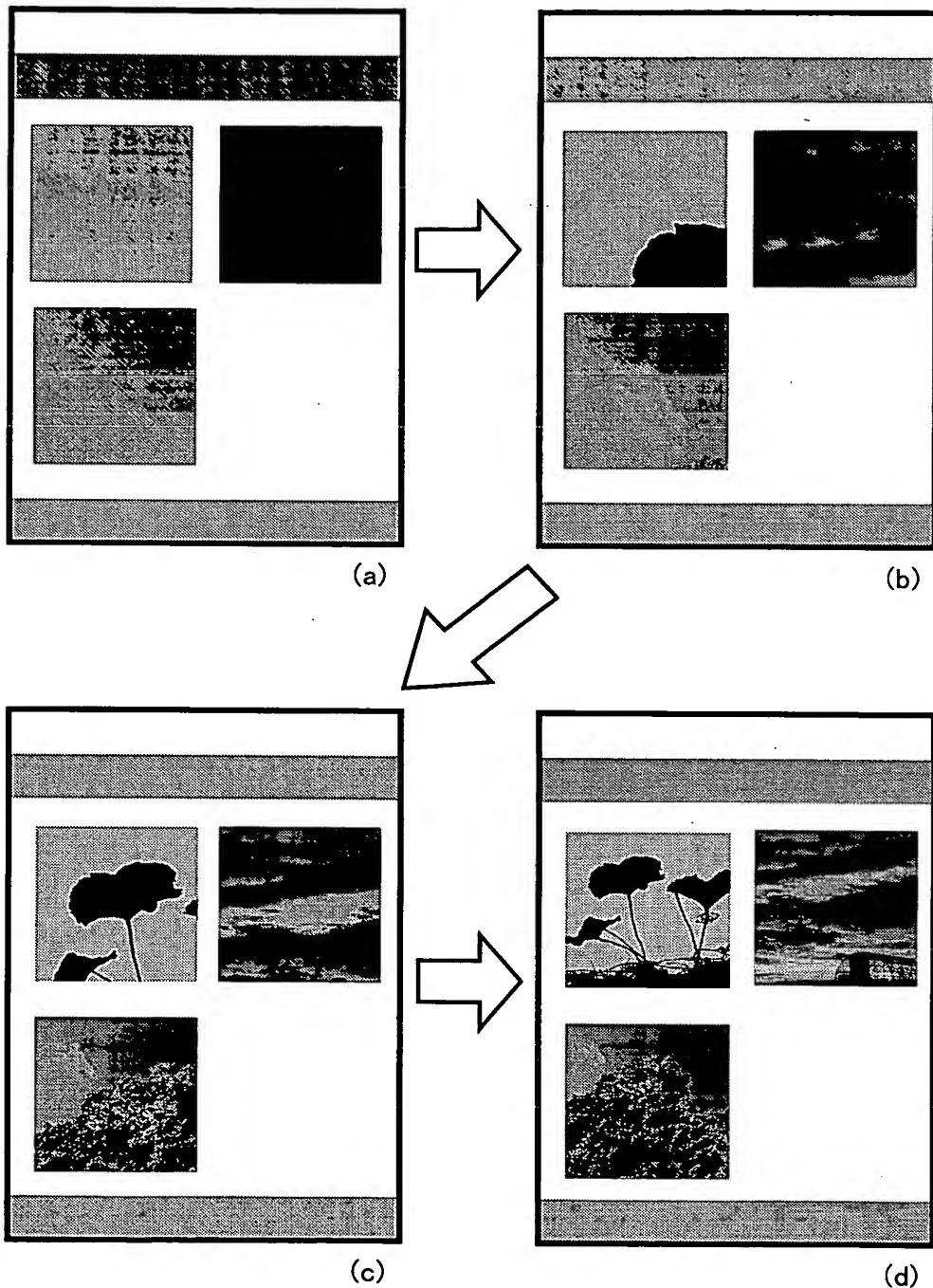


FIG.13

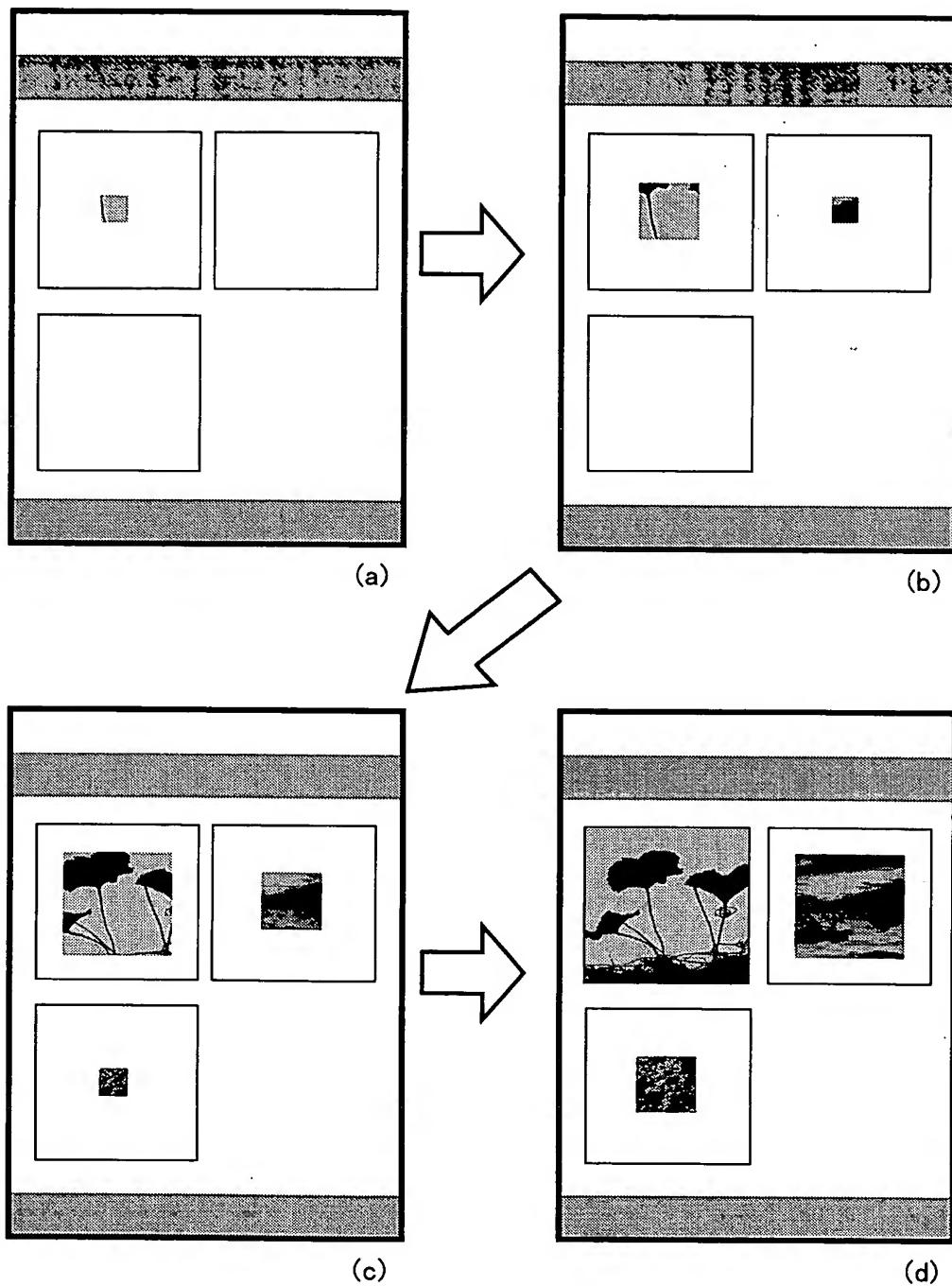


FIG.14

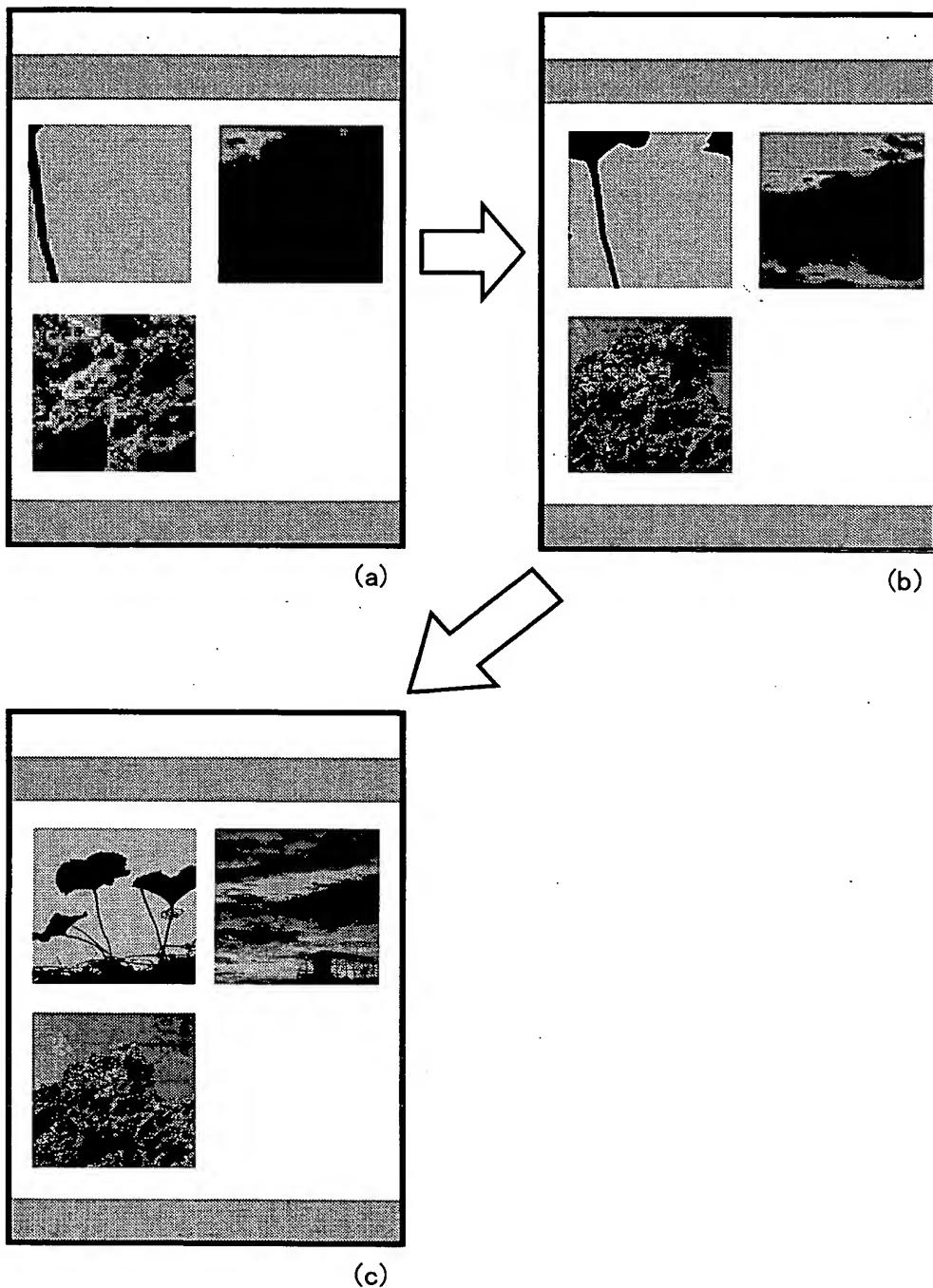


FIG.15

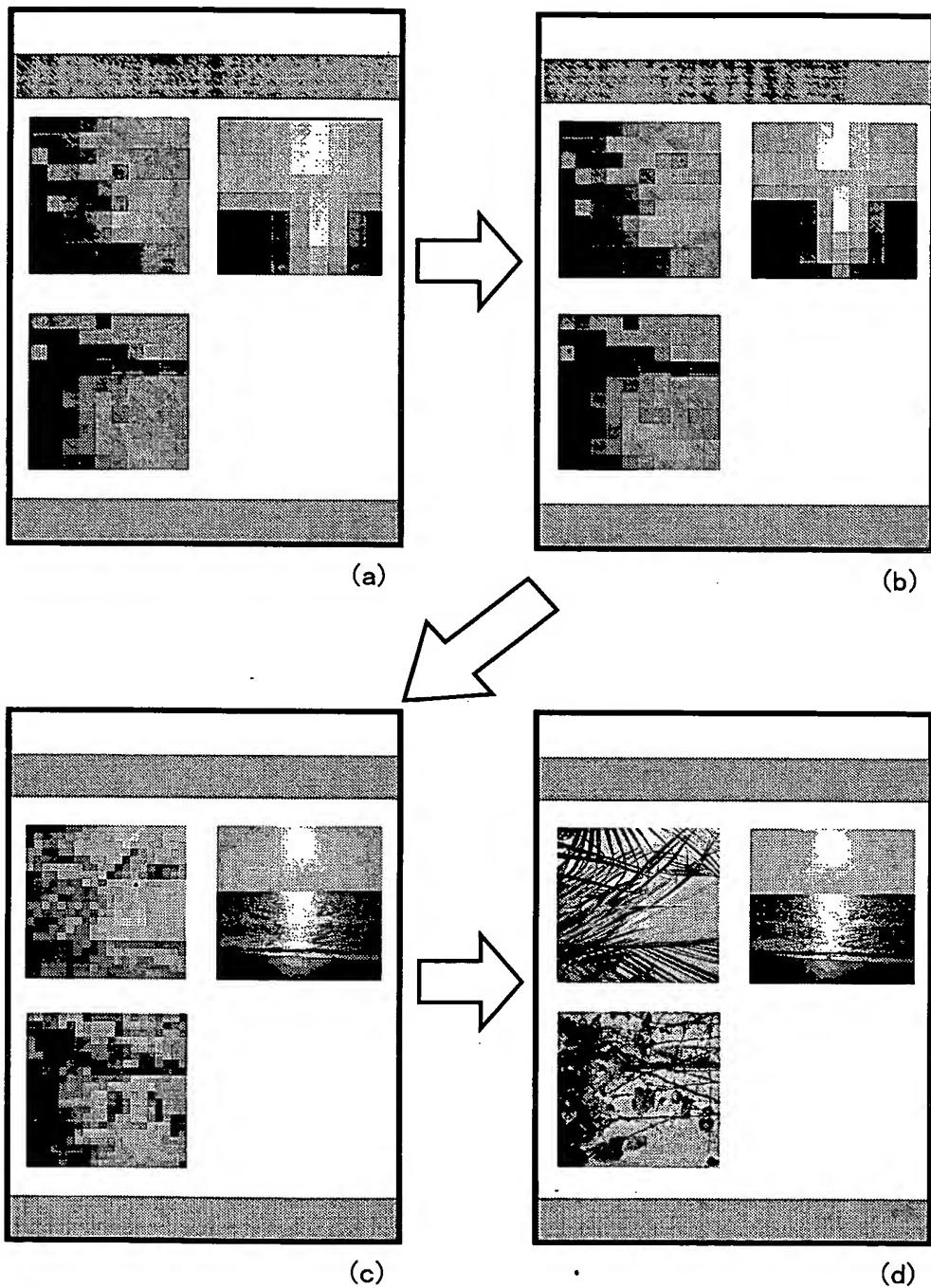


FIG.16

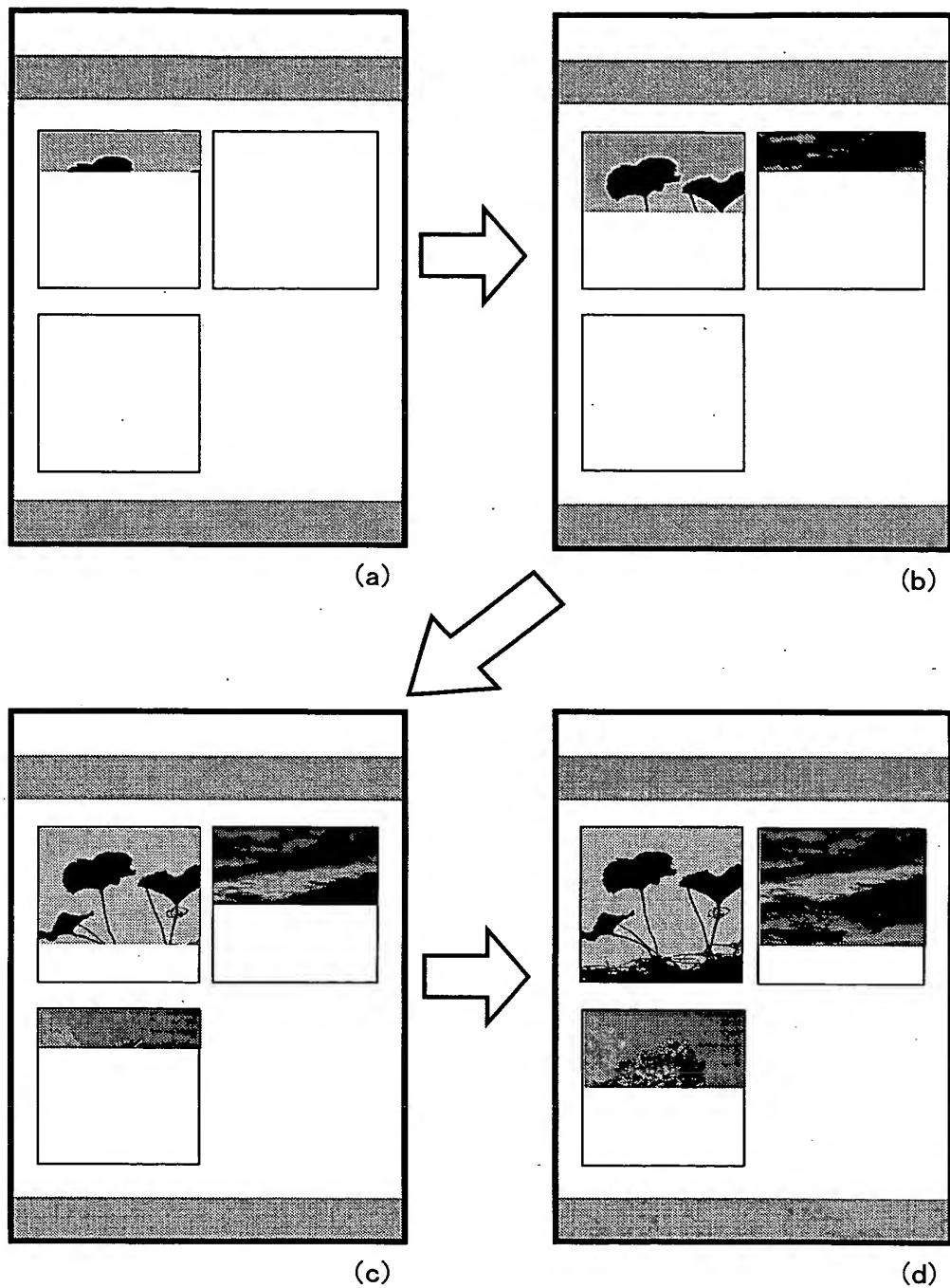


FIG.17

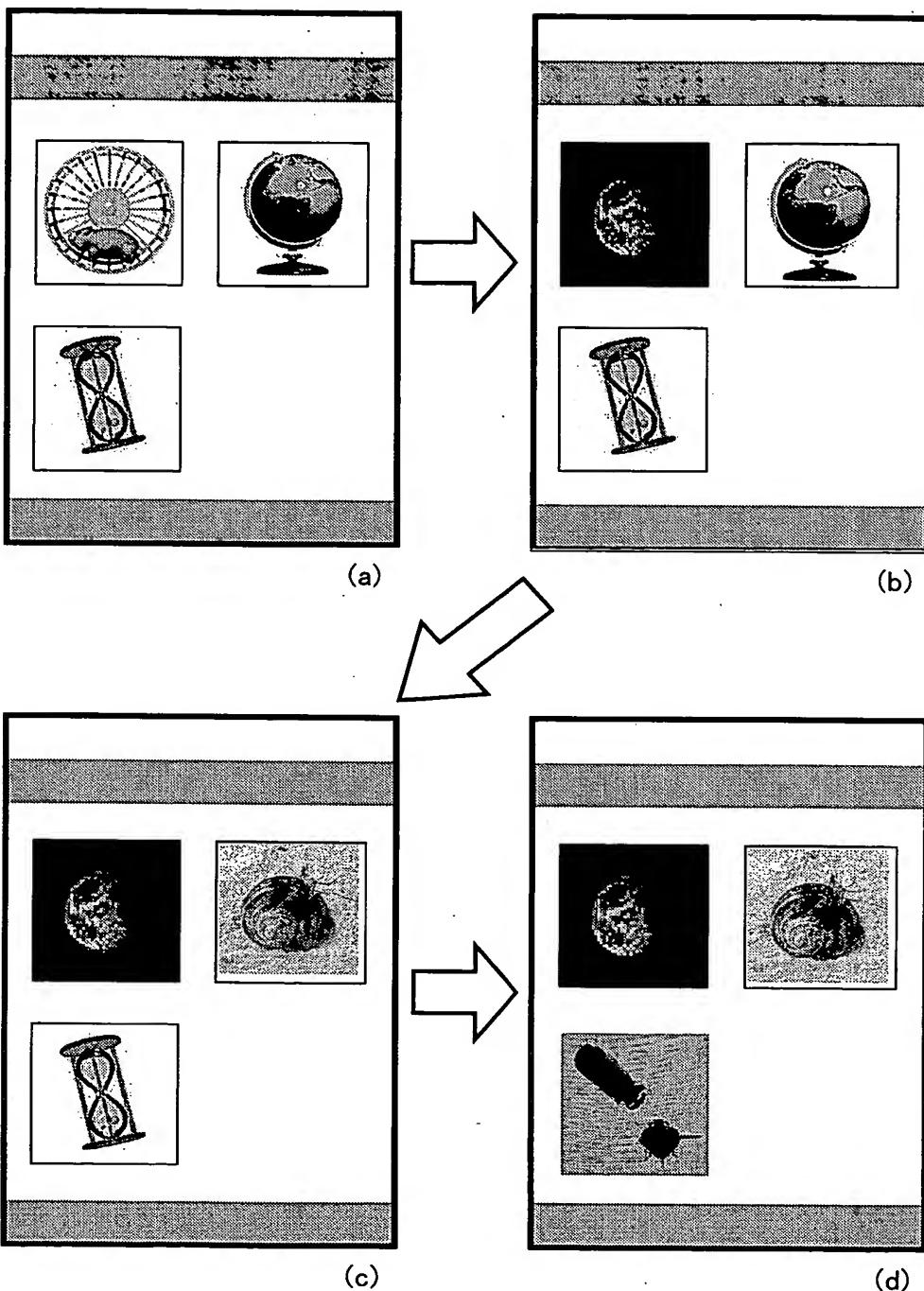


FIG.18

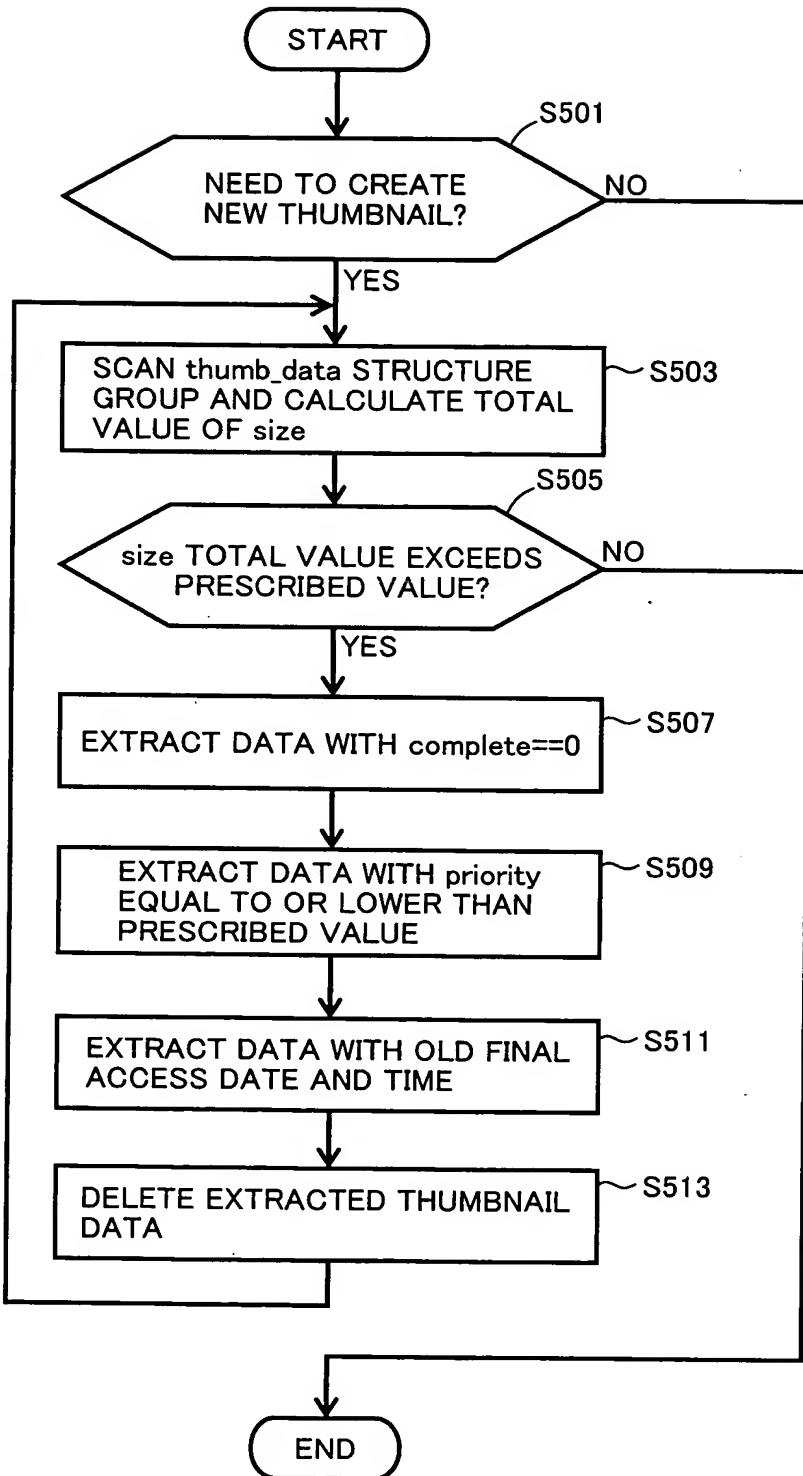


FIG.19

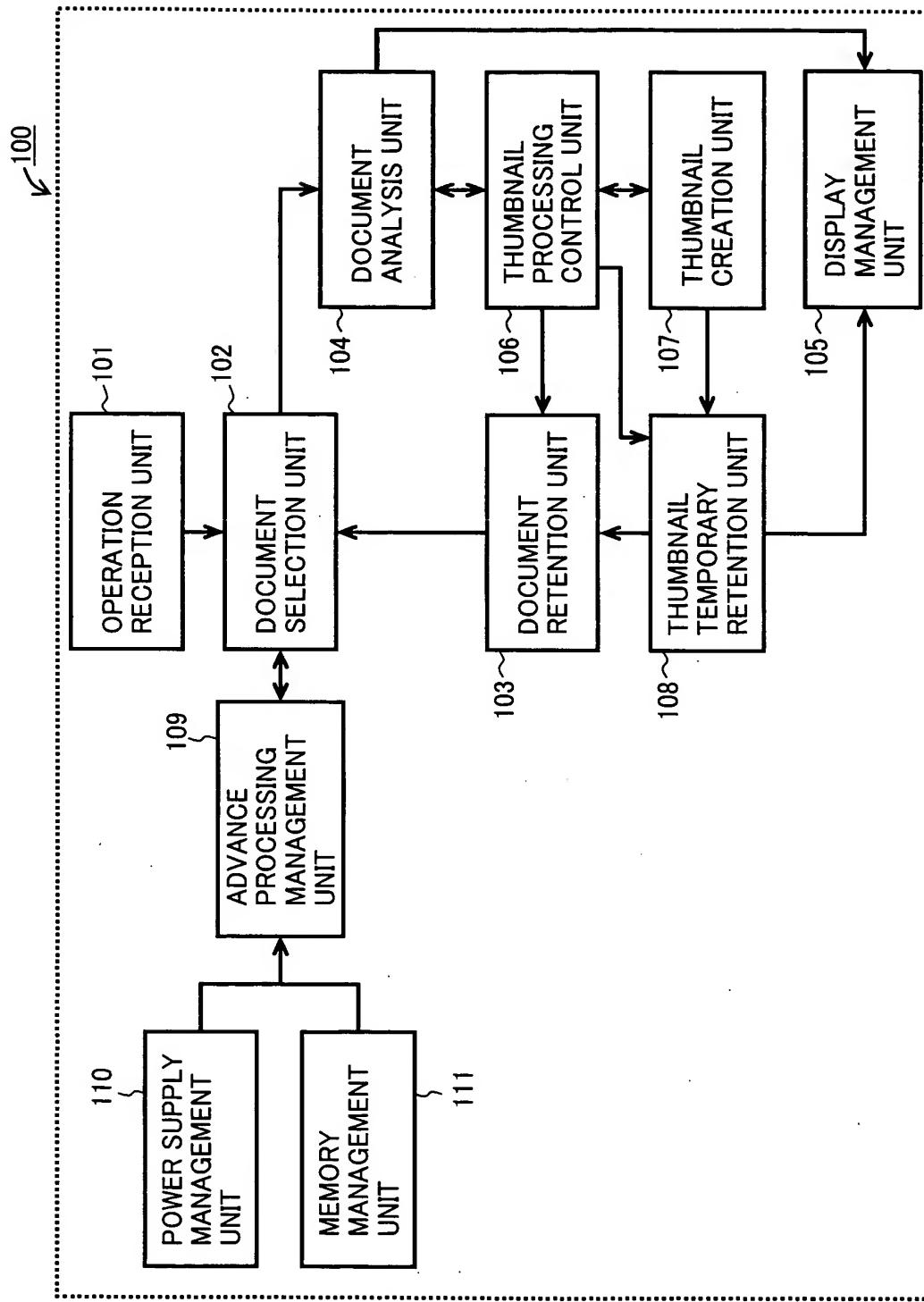


FIG.20

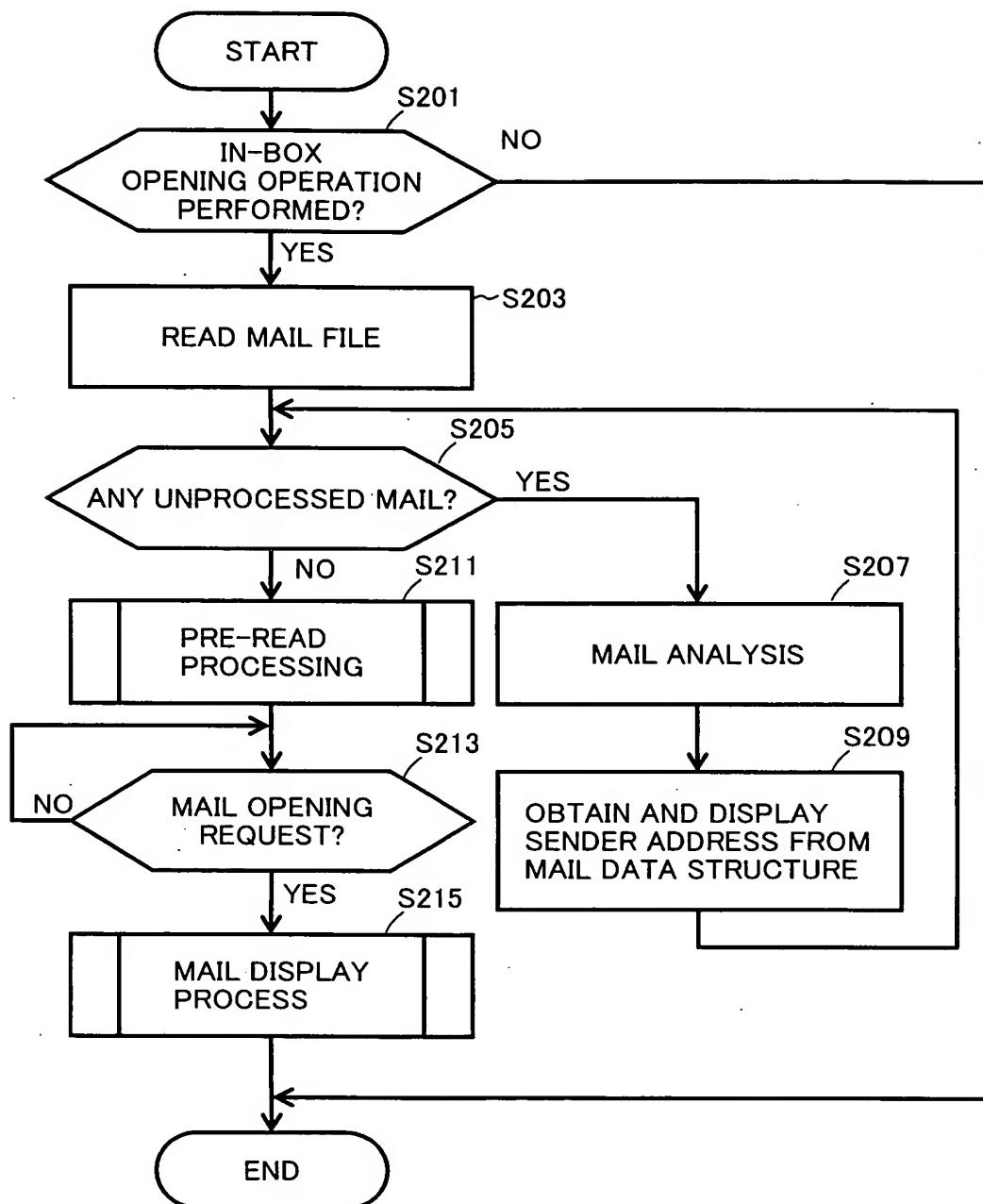


FIG.21

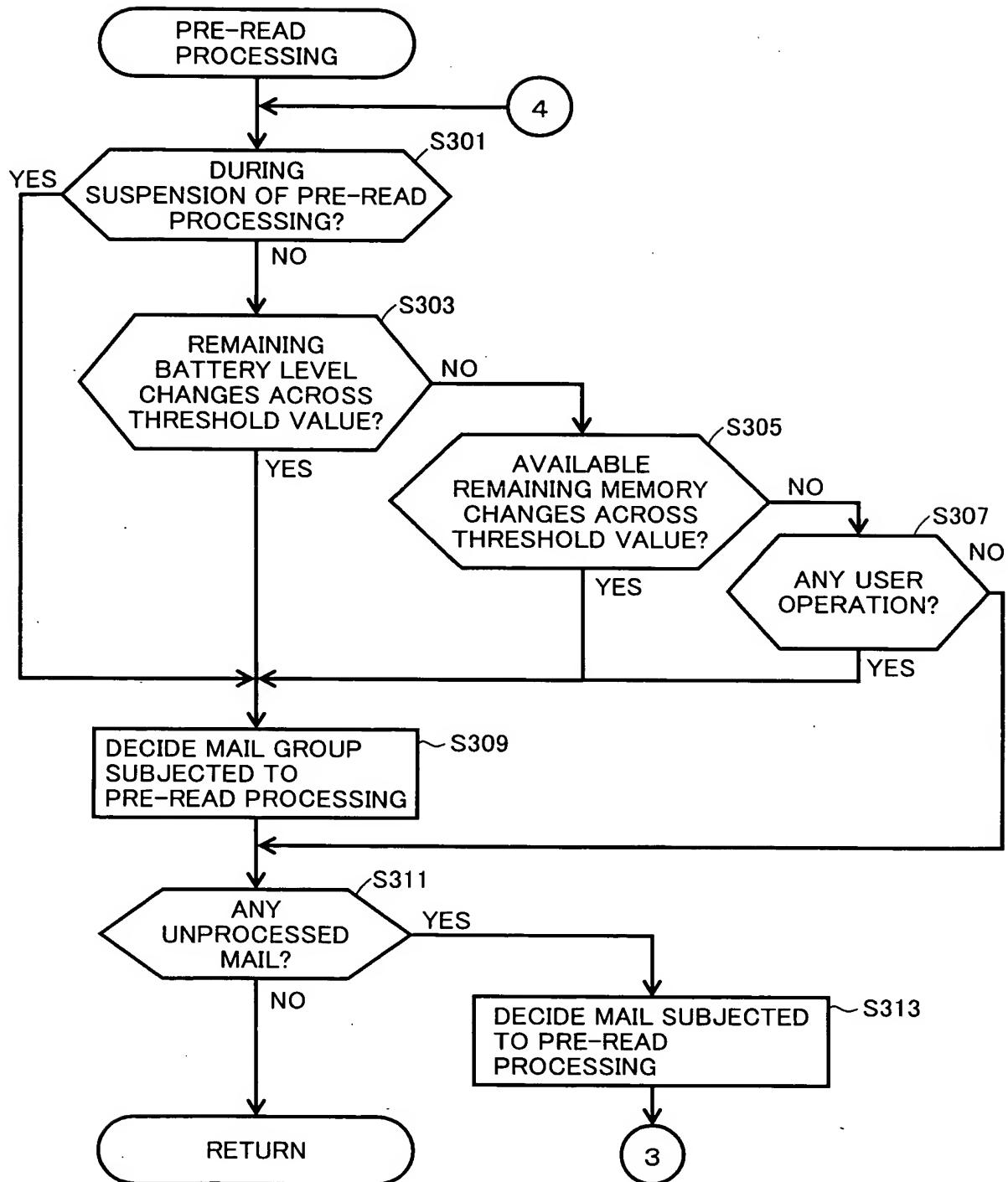


FIG.22

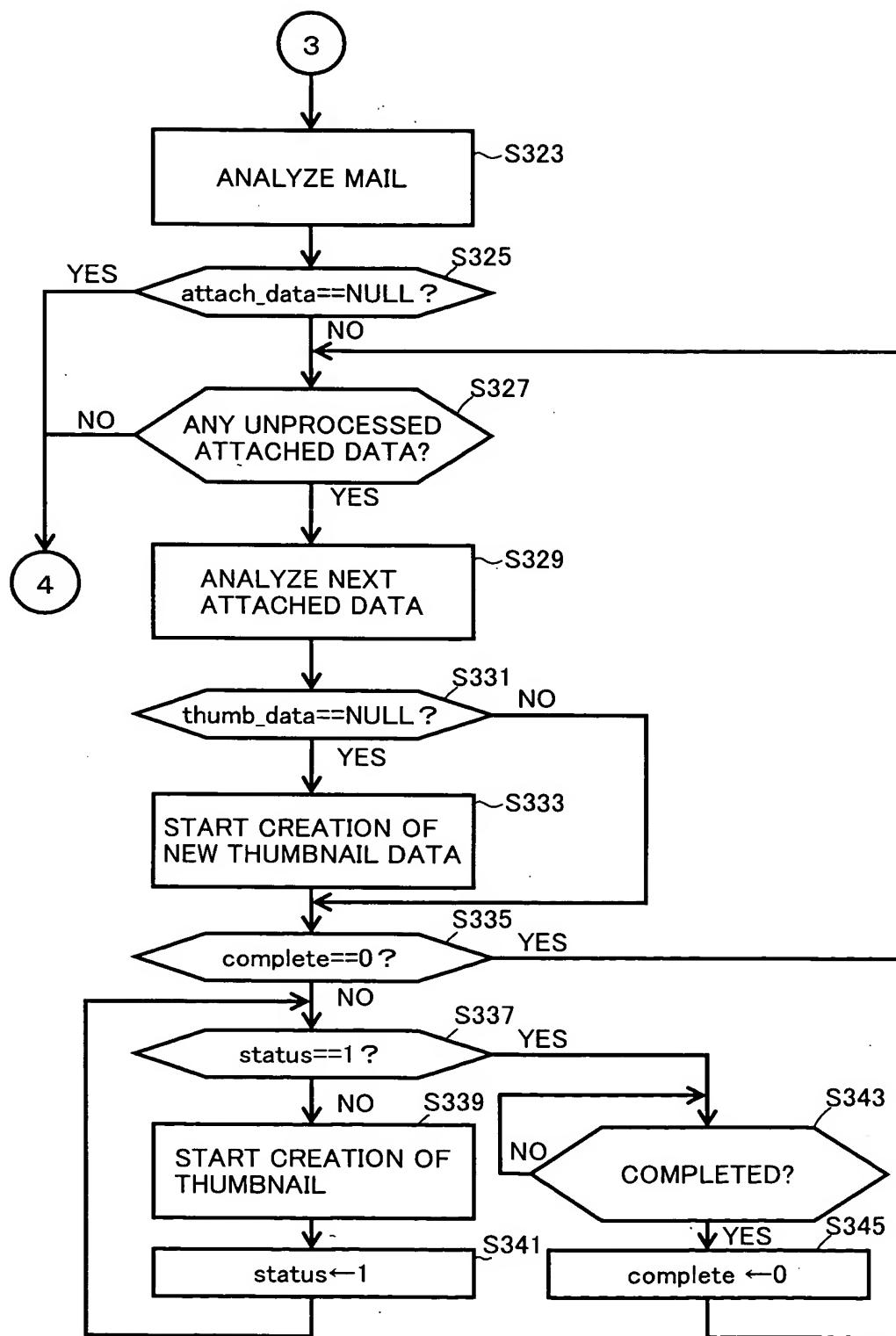


FIG.23

The diagram illustrates a database table structure for email messages. The table columns are: time, from, to[], cc[], subject, msg_text, msg_size, and attach_data.

The data entries are:

- Row 1: 2003/08/01 16:45:00, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject1, HOME APPLIANCE AND ..., 20573, NULL
- Row 2: 2003/08/01 18:45:21, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject2, INDEED, ..., 16002, NULL
- Row 3: 2003/08/01 18:58:00, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject3, HOWEVER, PLA ..., 44253, NULL
- Row 4: 2003/08/02 09:40:22, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject4, IN THIS EU ..., 82165, NULL
- Row 5: 2003/08/02 11:10:05, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject5, IN THE FIRST INNING, MATSUJ 16000, NULL
- Row 6: 2003/08/02 11:16:20, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject6, THE GAME 6 TO 3 ..., 4687, NULL
- Row 7: 2003/08/02 11:19:04, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject7, hogehoge, 80774, NULL
- Row 8: 2003/08/02 11:31:44, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject8, fugafuga, 75035, NULL
- Row 9: 2003/08/02 11:47:20, ABC@XYZ.com, koizumi@japan.gov, NULL, Subject9, bye., 12656, NULL

A bracket labeled '20' groups the first four rows, and a bracket labeled '21' groups the last five rows. Three arrows point from the 'attach_data' column to the last three rows (Rows 7, 8, and 9).

FIG.24

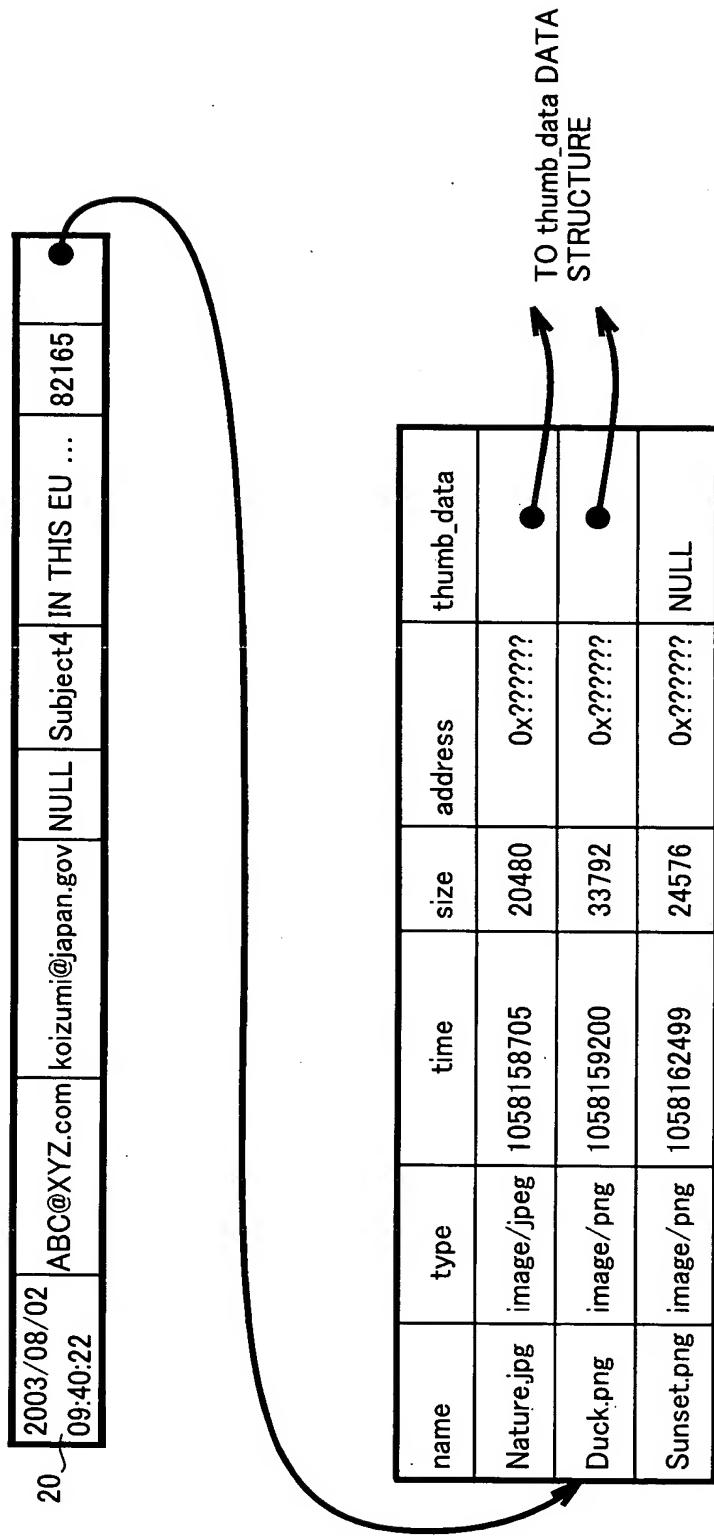


FIG.25

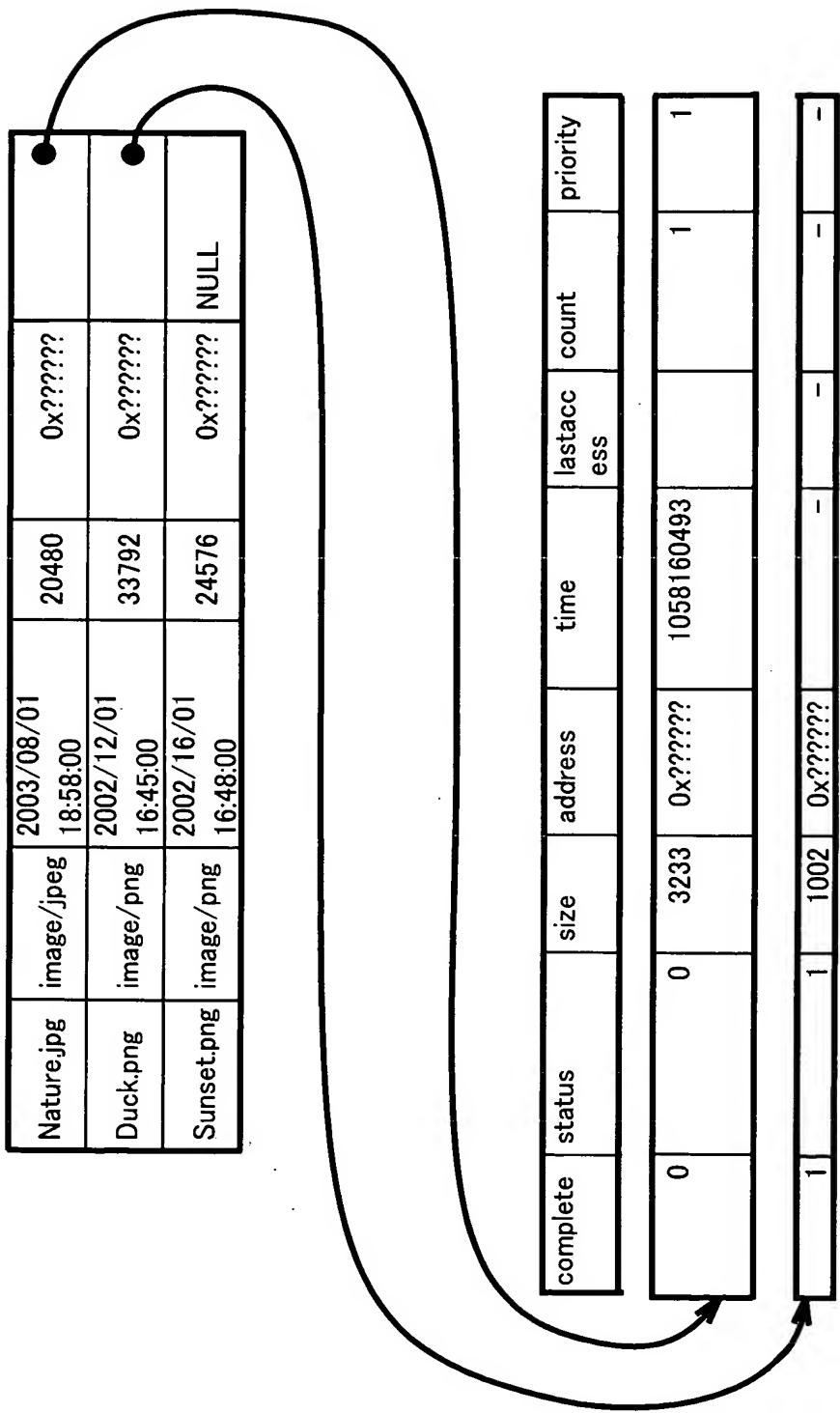


FIG.26

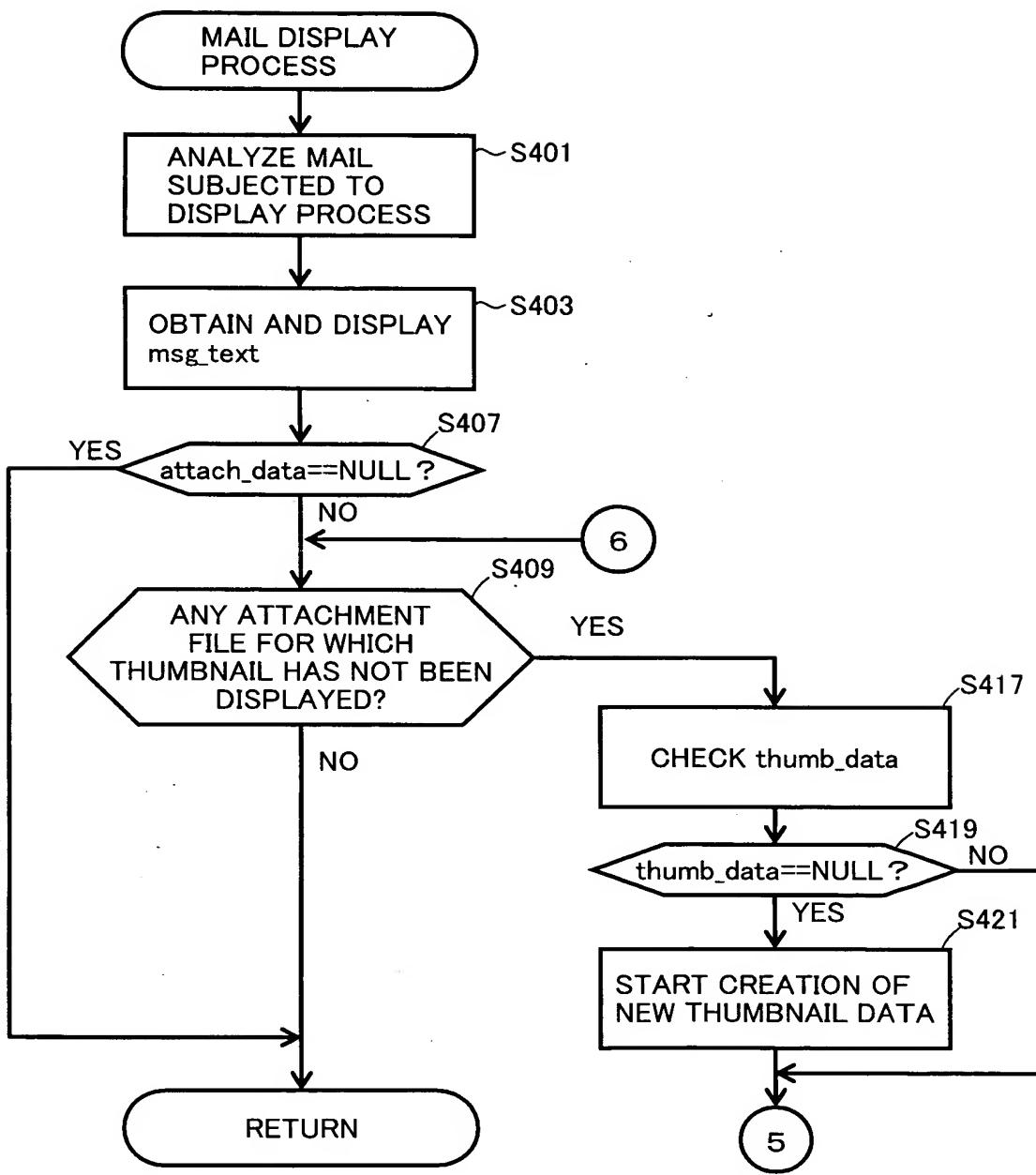


FIG.27

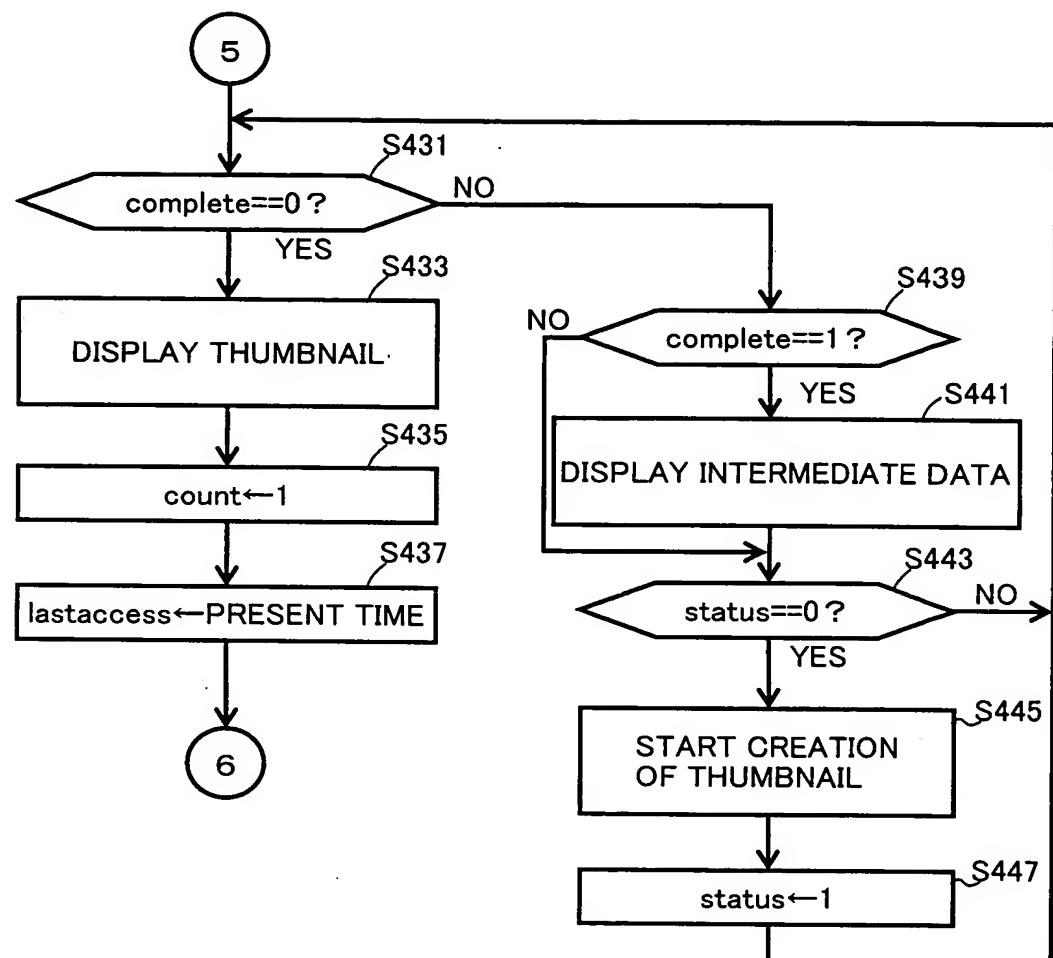


FIG.28

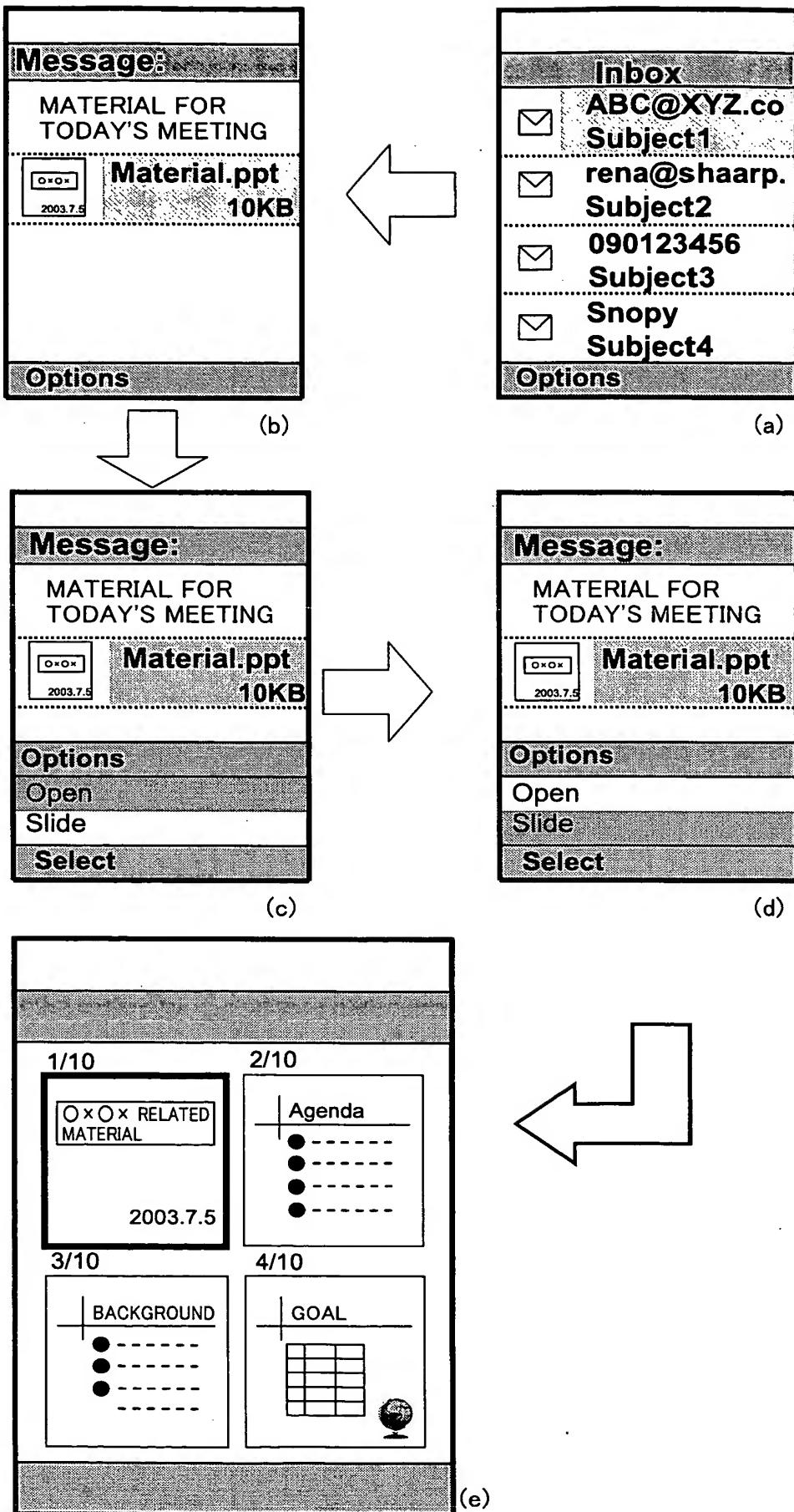
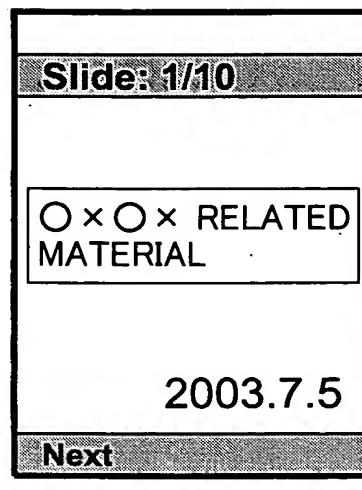
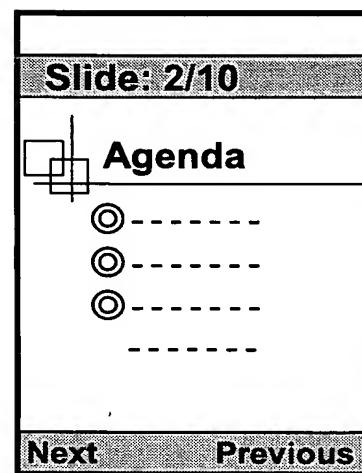


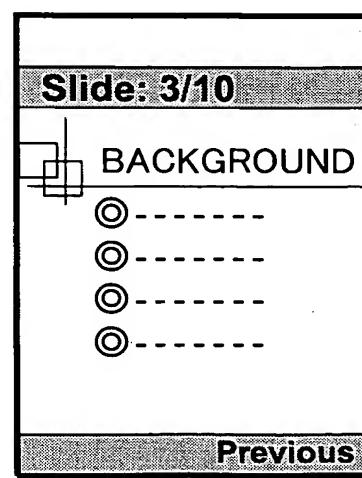
FIG.29



(a)



(b)



(c)

FIG.30

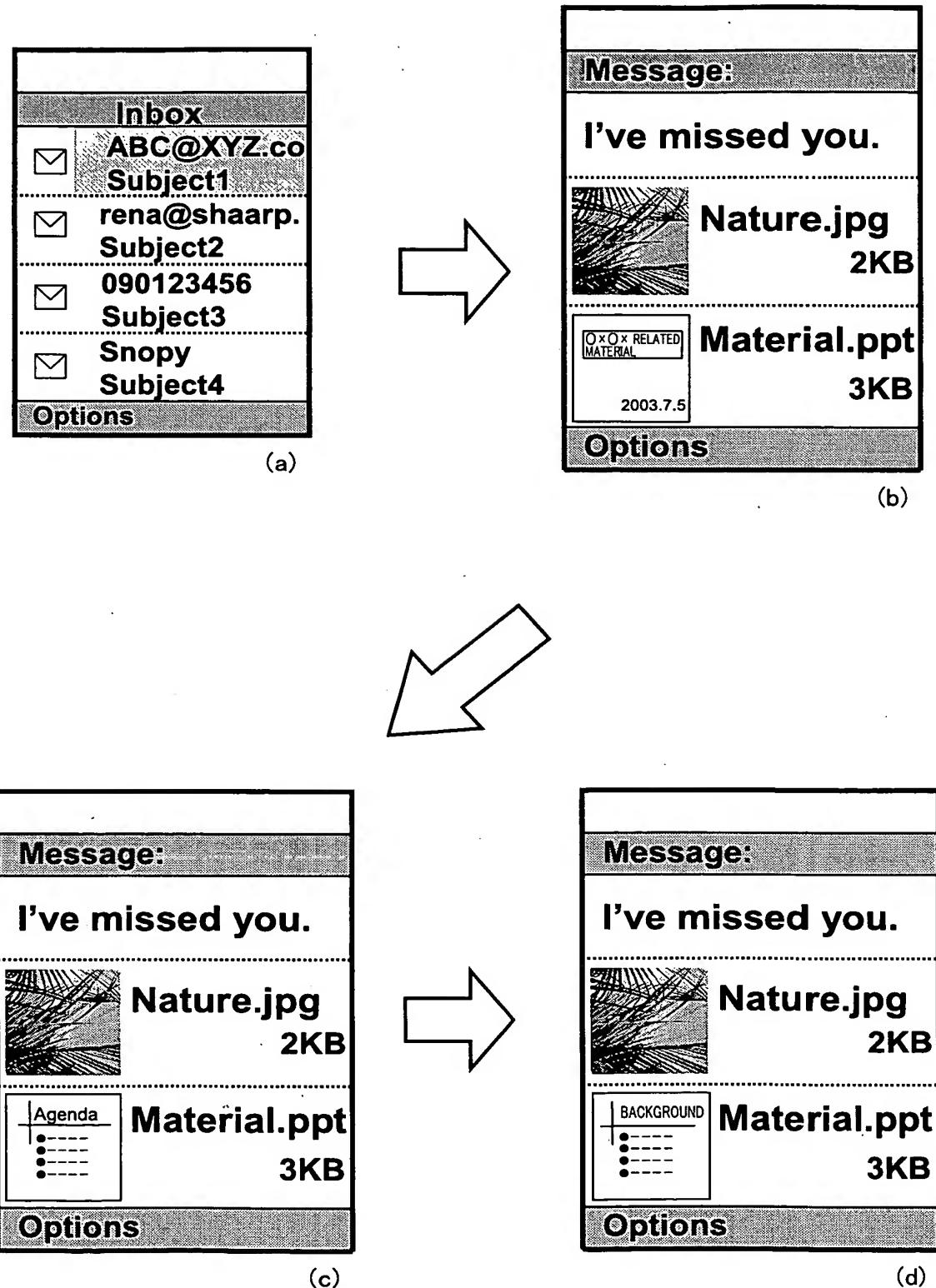


FIG.31

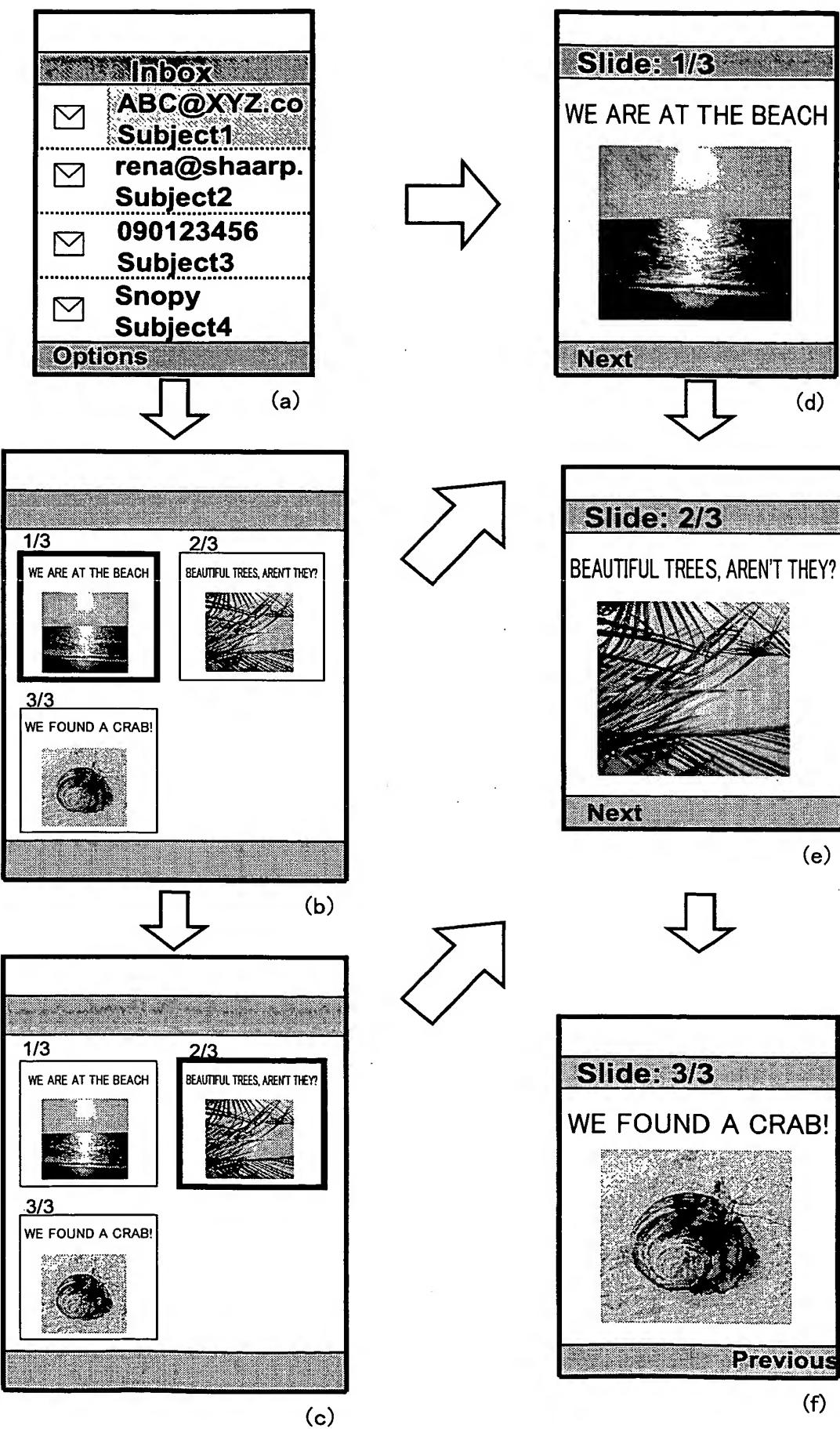
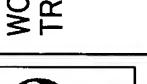


FIG.32

TODAY'S PROGRAM			
CH1	CH2	CH3	CH4
18	FRIDAY DRAMA 	TODAY'S NEWS 	BASEBALL GAME 
19	FRIDAY FILM 	PC COURSE 	Cooking - PIZZA - 
20	WORLD TRAVEL 	MYSTERY OF UNIVERSE 	LEARN JAPAN 
		VOLLEYBALL 	VOLLEYBALL 

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